

A black and white photograph of the Tacoma Police Department building at night. The building is a large, modern structure with a prominent glass facade. A flagpole with the American flag stands in front of the building. The word "PREDPOL" is overlaid in large, white, sans-serif capital letters across the center of the image.

# PREDPOL



**TACOMA POLICE DEPARTMENT**

# WHAT IS PREDICTIVE POLICING?

- No standard definition
- Paradigm of prevention and efficiency
- Similar to weather forecasting
  - Both long-term and short-term forecasts
- Not Minority Report!

# WHY IS IT BENEFICIAL?

- Prevention is cheaper than investigation
- Planning and resource allocation
- More focused response effective and efficient, can do more with less

**SAVES MONEY**

# PREDPOL IS ...

- software technology that predicts the time and place of future crimes
- high level mathematics combined with experienced crime analysts and veteran police using their own knowledge and experience
- more than “rear view mirror” policing that simply maps past crime

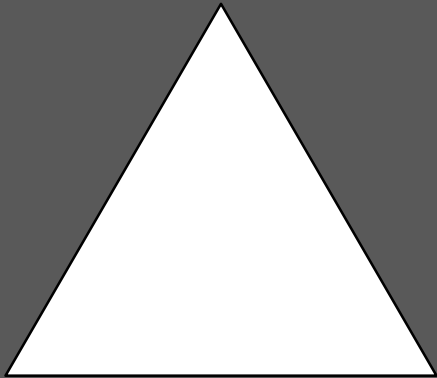


## PREDICTIVE POLICING

- **is NOT:**
  - a replacement for knowledge, skills & experience
  - profiling of individuals
  - probable cause
  - new hardware or new hires
- **IS:**
  - assigning probabilities of crime in space and time
  - focal points for effective use of police resources
  - use of existing crime data

# THE SCIENCE

repeat victimization



near-repeats

local search

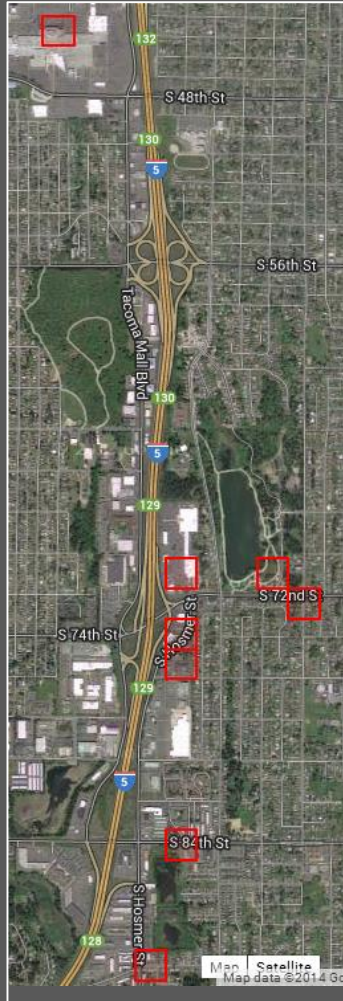
offender behavior



$$\frac{\partial B}{\partial t} = \frac{\eta D}{4} \nabla^2 B - \omega B + \theta \omega \delta$$

mathematical model

# PREDPOL vs HOTSPOTS

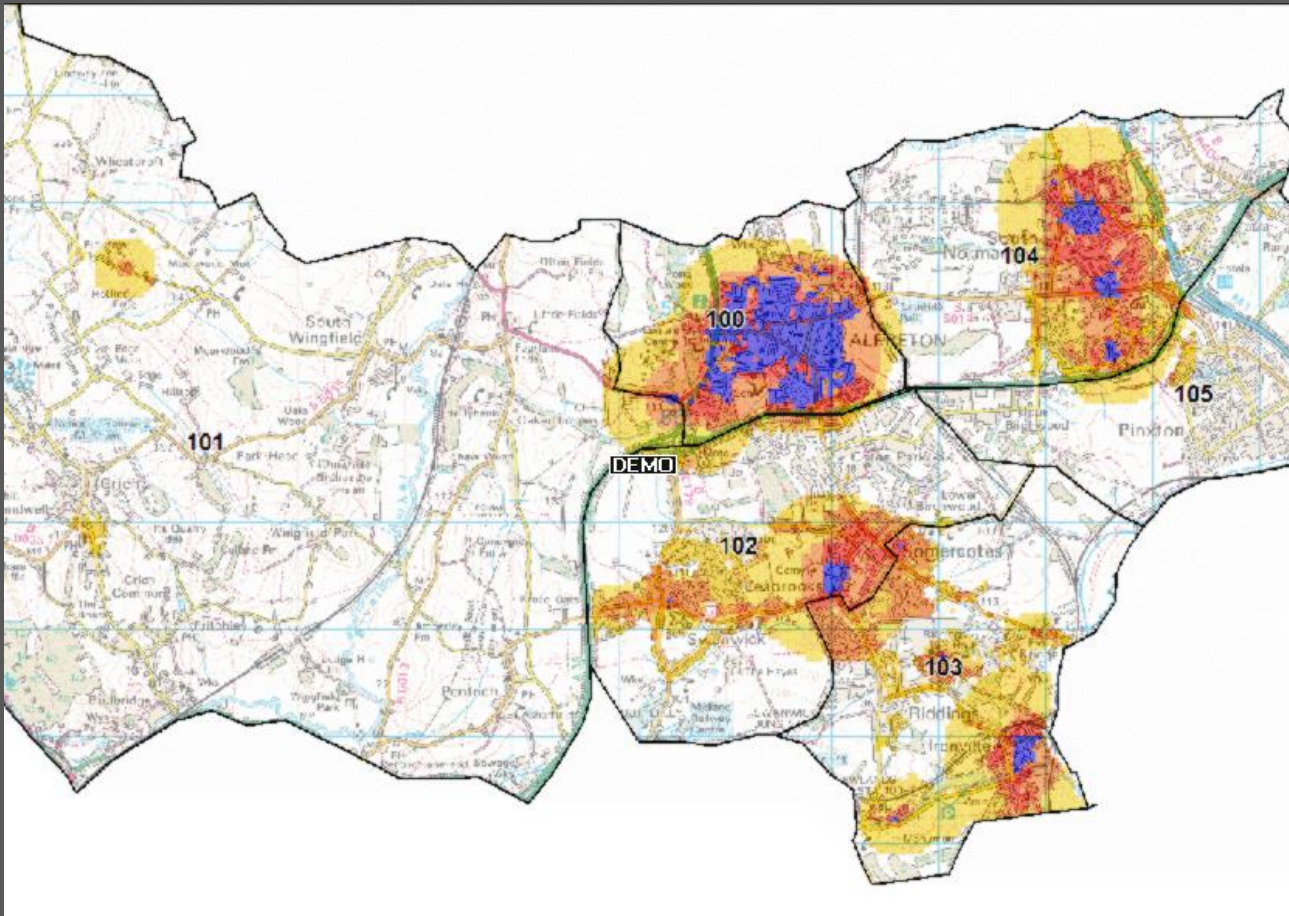


- PredPol is 2x more accurate than hotspots
- More focused areas
- Fewer resources needed to address areas

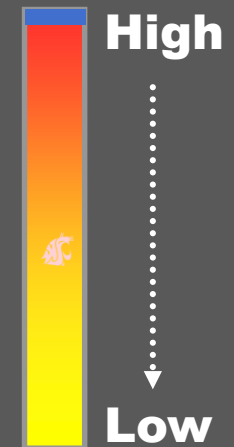


# HOTSPOTS

Hot spots of burglary are considered "slippery"

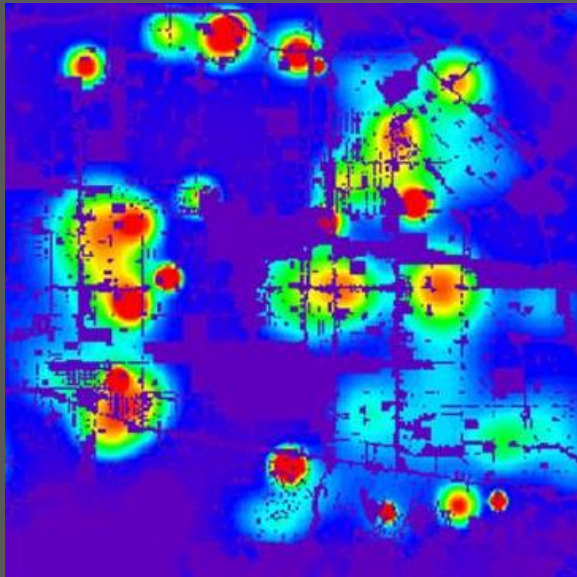


**Burglary  
Concentration**

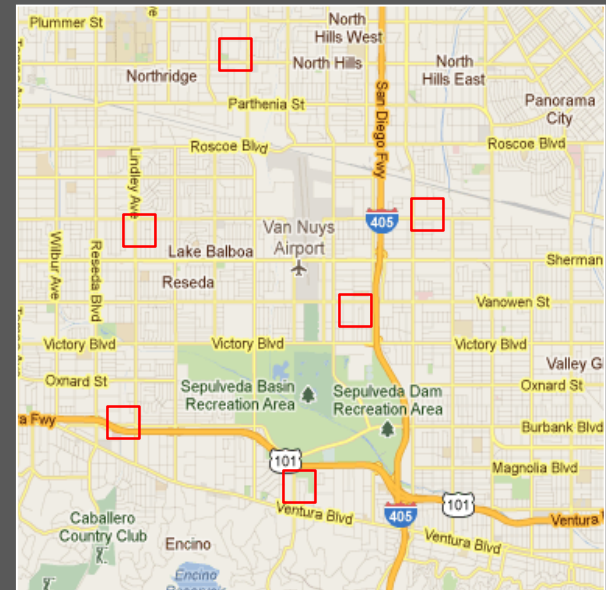




# MAKING PREDICTIVE POLICING PRACTICAL



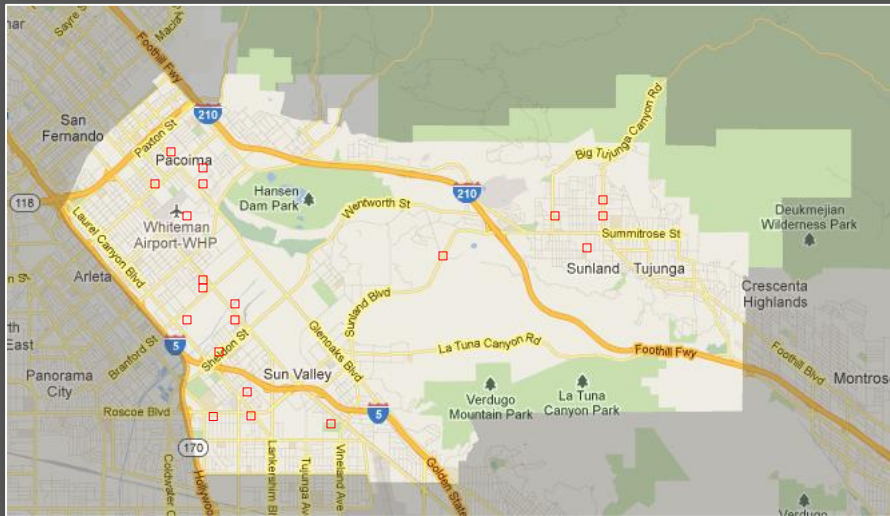
tactical ambiguity



tactical clarity

# DEPLOYMENT TO OFFICERS

- lists or maps of predictions in 500' x 500' boxes
- distributed at start of shift or on-demand
- 'get in the box' to disrupt crime during patrols



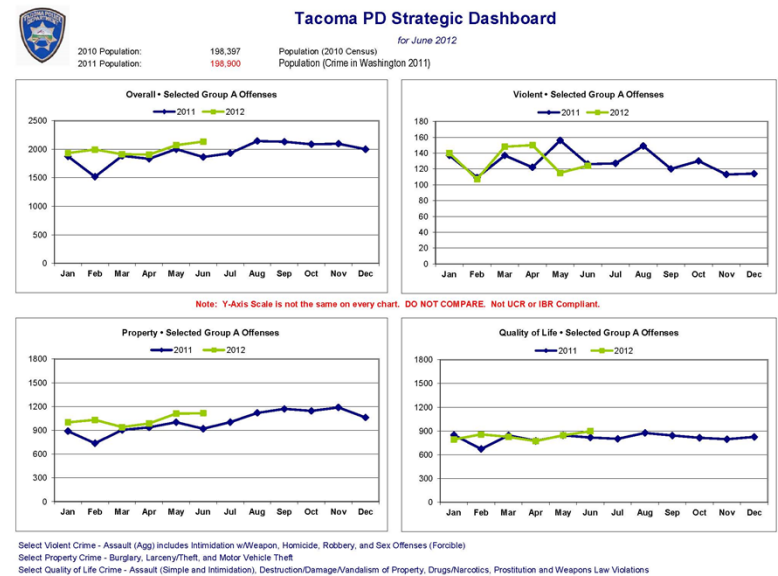
LAPD Deployment



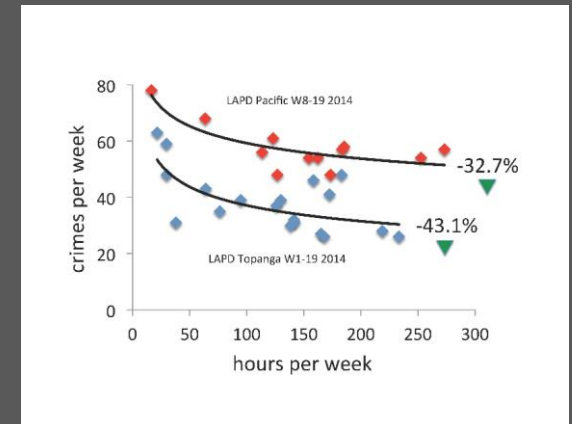
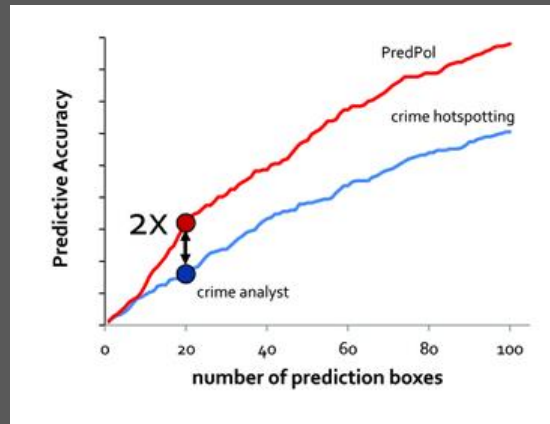
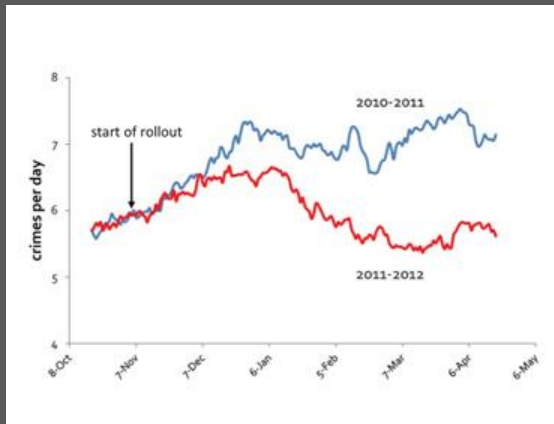
Santa Cruz PD Deployment

## Analysts provide information of active offenders in area

## Reports and analytical products can drive PredPol priorities

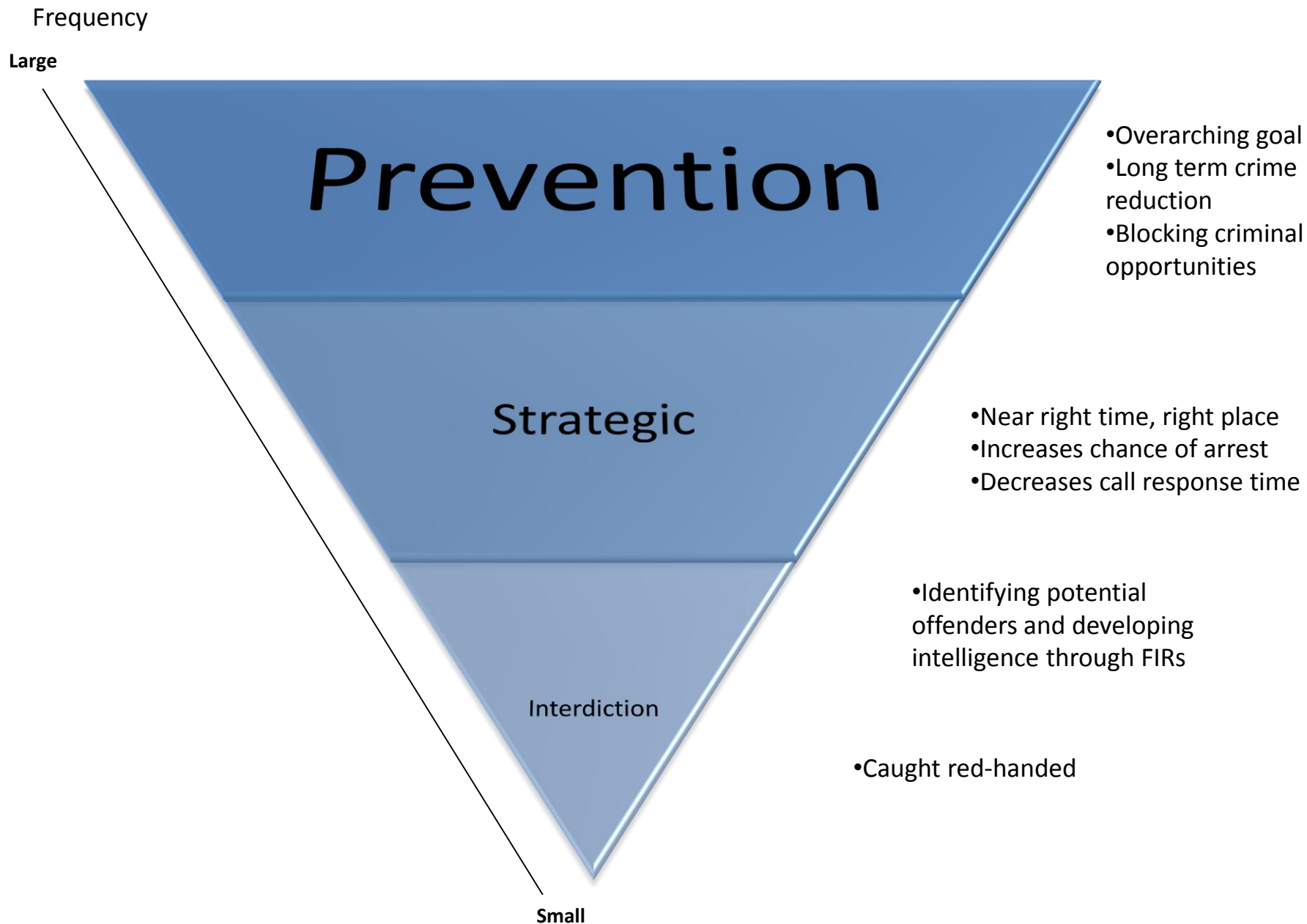


# LAPD RESULTS

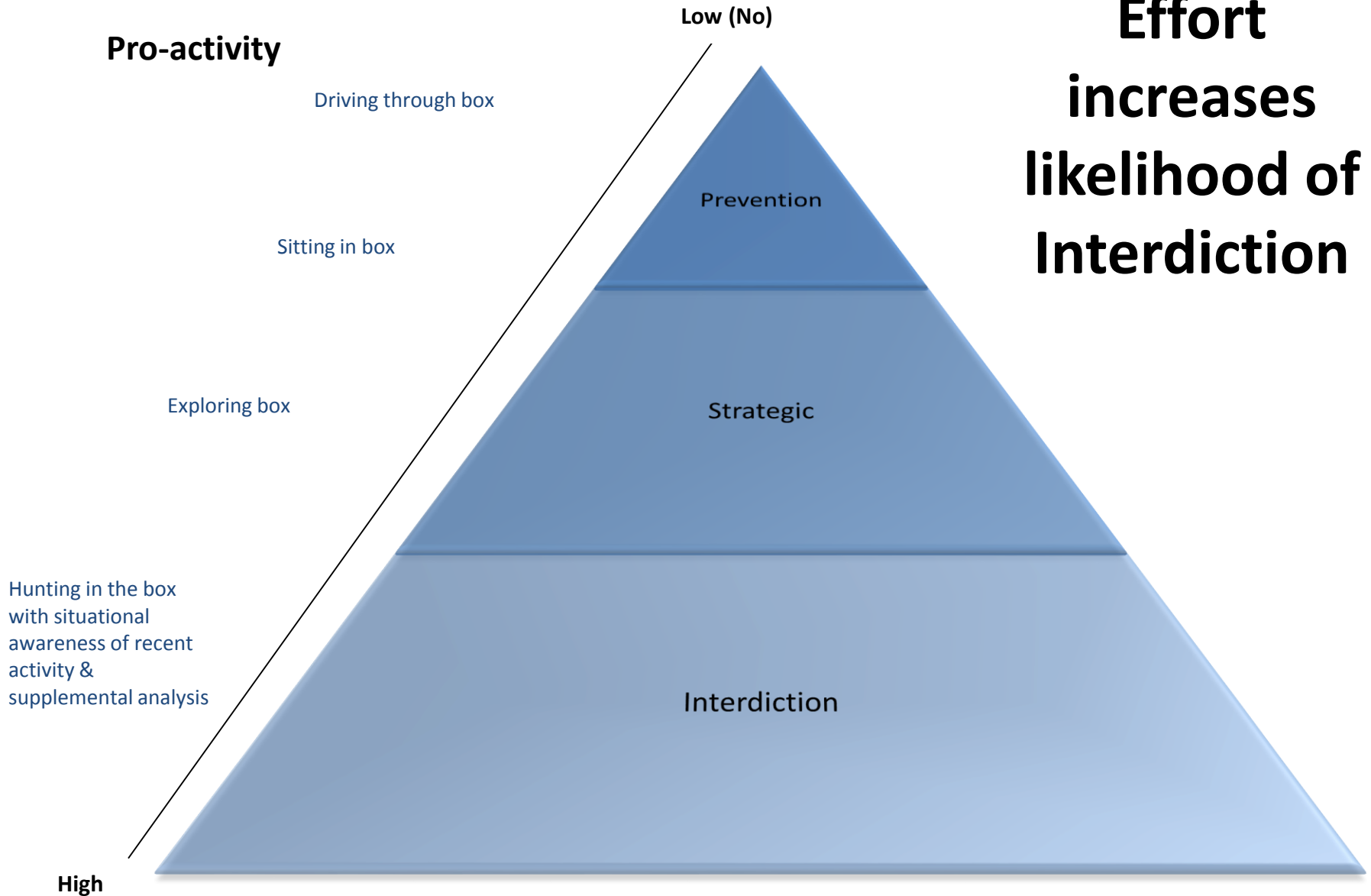


DEMO

# Benefits of PredPol

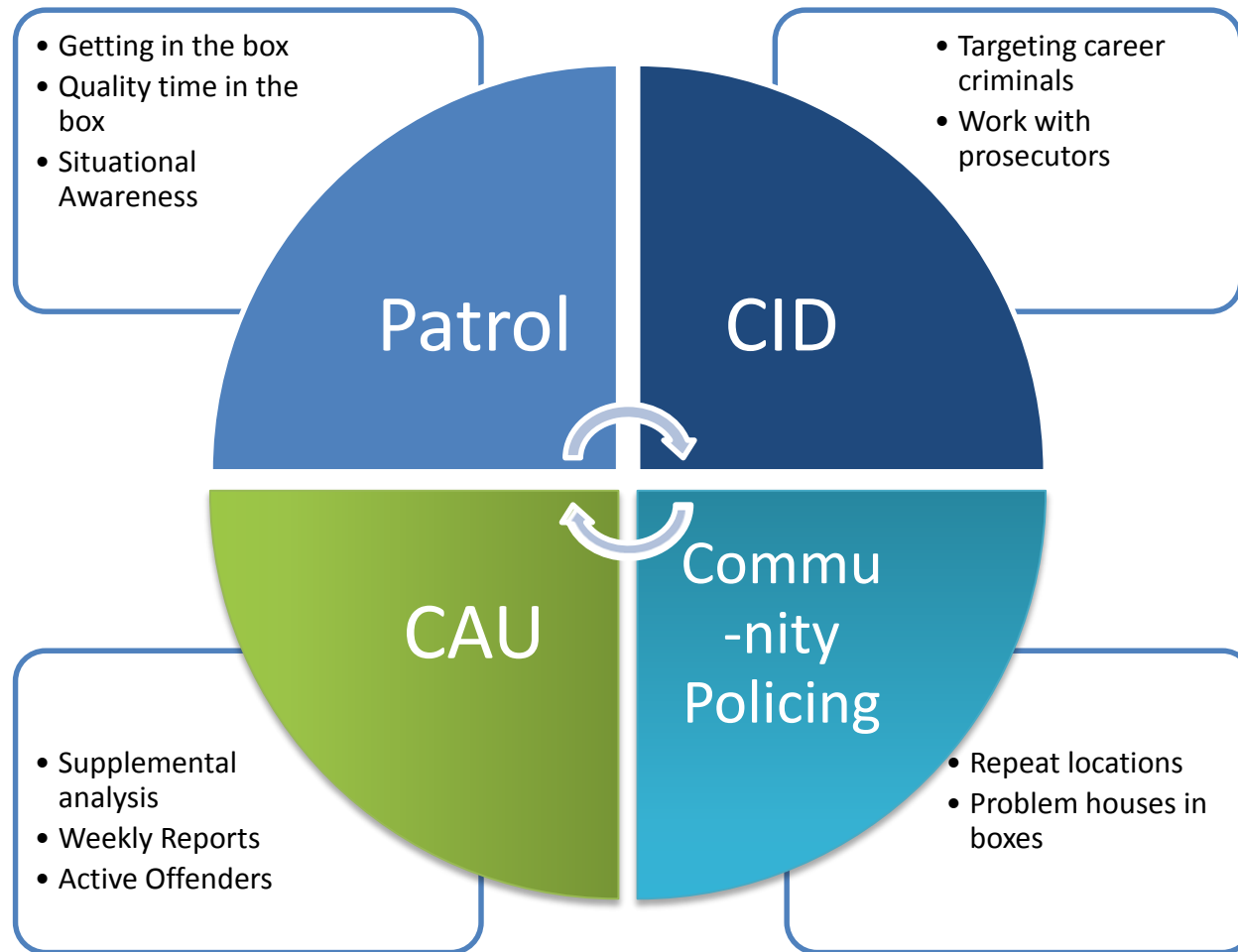


**Level of  
Effort  
increases  
likelihood of  
Interdiction**



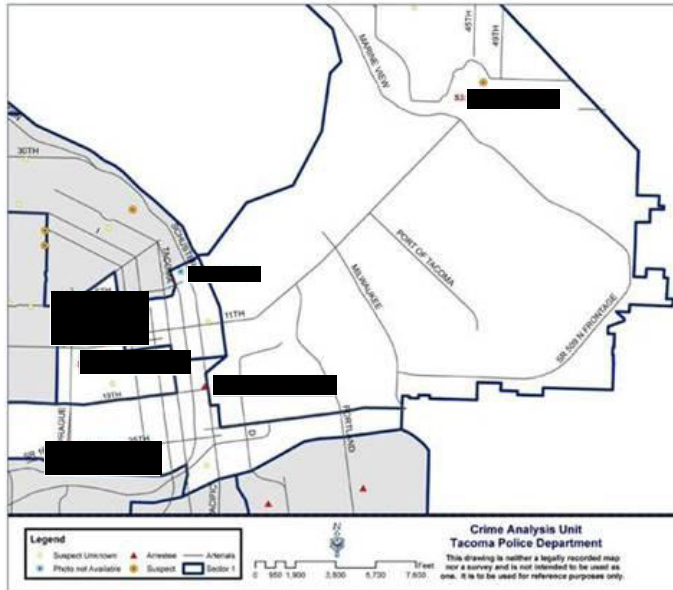


# Holistic Approach



# CAU on CopWeb

City of Tacoma – Burglary Offense Locations • Sector 1  
Arrestees and Suspects - February 2013



Sector 1 - No Photo Available Suspect Table							
Case Number	Suspect's Name	Offense Location	Date of Birth	Age	Race	Sex	Last Known Address

Sector 1 - Arrestees			Sector 1 - Suspects		
A1	A2		S1	S2	S3
Name: [REDACTED] Race/Sex: [REDACTED] DOB: [REDACTED] Hgt/Wgt: [REDACTED] Hair/Eye: [REDACTED] LKA: [REDACTED] Case #: [REDACTED] Alias: [REDACTED]	Name: [REDACTED] Race/Sex: [REDACTED] DOB: [REDACTED] Hgt/Wgt: [REDACTED] Hair/Eye: [REDACTED] LKA: [REDACTED] Case #: [REDACTED] Alias: [REDACTED]		Name: [REDACTED] Race/Sex: [REDACTED] DOB: [REDACTED] Hgt/Wgt: [REDACTED] Hair/Eye: [REDACTED] LKA: [REDACTED] Case #: [REDACTED] Alias: [REDACTED]	Name: [REDACTED] Race/Sex: [REDACTED] DOB: [REDACTED] Hgt/Wgt: [REDACTED] Hair/Eye: [REDACTED] LKA: [REDACTED] Case #: [REDACTED] Alias: [REDACTED]	Name: [REDACTED] Race/Sex: [REDACTED] DOB: [REDACTED] Hgt/Wgt: [REDACTED] Hair/Eye: [REDACTED] LKA: [REDACTED] Case #: [REDACTED] Alias: [REDACTED]

Under Administrative  
Services Bureau tab

Click on Crime Analysis

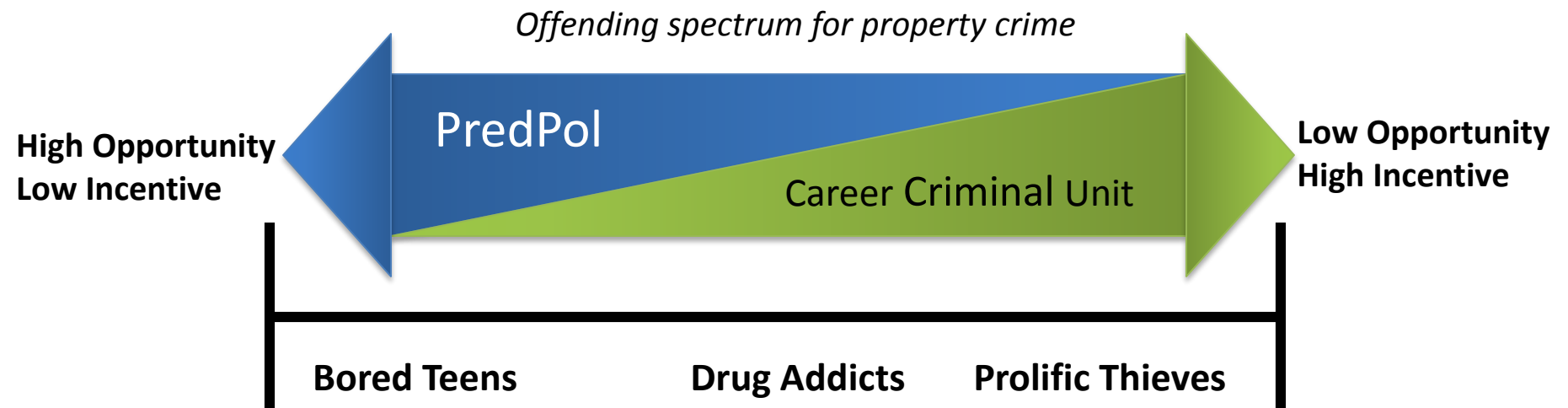
<http://tpd.sharepoint.lesa.net/asb/crimeanalysis/default.aspx>

Reports:

- Vehicle Prowl
- Burglary
- Robbery
- MVTR

# Property Crime Prevention

policing the risk = reducing the opportunity

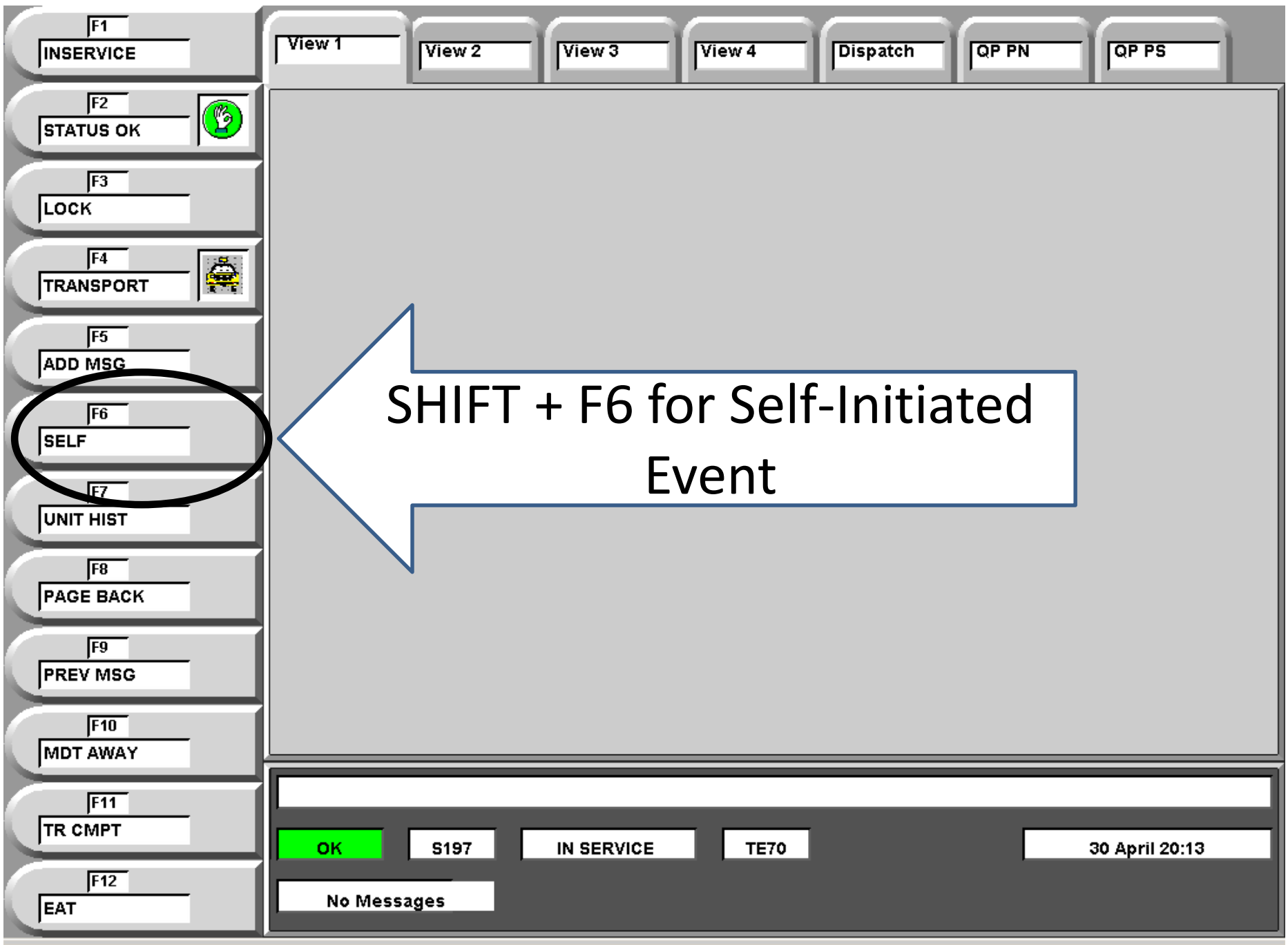


# What PredPol means for you...

- Rule of Thumb: 6 times in box for 10 mins
- Dispatch still priority
- Don't ignore other places you know are high crime
- Use Incident Mapping and supplement with CAU reports
- Don't be glued to box boundaries, draw from your experience

# Before you start...

- You must make sure your CAD has been upgraded (see IDM# 13-011)
  - Otherwise the “hot key” function will not work
- You need to have Google Chrome installed on your laptop to access the PredPol website
  - PredPol’s uses Google Maps which doesn’t play with well Internet Explorer
  - Note: CAD & SS911 apps still require Internet Explorer
  - **DO NOT MAKE GOOGLE CHROME YOUR DEFAULT BROWSER**



F1  
INSERVICE

F2  
STATUS OK



F3  
LOCK

F4  
TRANSPORT



F5  
ADD MSG

F6  
SELF

F7  
UNIT HIST

F8  
PAGE BACK

F9  
PREV MSG

F10  
MDT AWAY

F11  
TR CMPT

F12  
EAT

View 1

View 2

View 3

View 4

Dispatch

QP PN

QP PS

SHIFT + F6 for Self-Initiated  
Event

OK

S197

IN SERVICE

TE70

30 April 20:13

No Messages

F1 ENROUTE	View 1	View 2	View 3	View 4	Dispatch	QP PN	QP PS
F2 ARRIVE	SELF						
F3 BLANK	MDS SELF-INITIATED EVENT						
F4 ORIG DISP	<div><div>TYPE CODE: <input type="text"/></div><div>LOCATION: <input type="text"/></div></div> <div>"PREDPO"</div> <div>Address</div>						
F5 TRF STOP	OPTIONAL						
F6 SUSP PERS	<div>COMMENTS: <input type="text"/></div> <div>LICENSE: <input type="text"/> LIC STATE: <input type="text"/> (Default WA)</div>						
F7 RCL INC							
F8 PAGE FWD							
F9 NEXT MSG							
F10 SAVE							
F11 RECALL							
F12 REPLY							
<div>OK S197 IN SERVICE TE70 30 April 20:24</div> <div>No Messages</div>							



F1 ENROUTE	View 1	View 2	View 3	View 4	Dispatch	QP PN	QP PS
F2 ARRIVE	SELF						
F3 BLANK	MDS SELF-INITIATED EVENT						
F4 ORIG DISP	REQUIRED						
F5 TRF STOP	TYPE CODE: PREDPO						
F6 SUSP PERS	LOCATION: 3700 S PINE ST						
F7 RCL INC	OPTIONAL						
F8 PAGE FWD	COMMENTS:						
F9 NEXT MSG	LICENSE: LIC STATE: (Default WA)						
F10 SAVE							
F11 RECALL							
F12 REPLY							
OK S197 IN SERVICE TE70 30 April 20:31							
No Messages							

F1  
ENROUTE

F2  
ARRIVE

F3  
BLANK

F4  
ORIG DISP

F5  
TRF STOP

F6  
SUSP PERS

F7  
RCL INC

F8  
PAGE FWD

F9  
NEXT MSG

F10  
SAVE

F11  
RECALL

F12  
REPLY

View 1

View 2

View 3

View 4

Dispatch

QP PN

QP PS

INCIDENT HISTORY DETAIL: LAW/L131201182

Initiate: 20:32:48 04/30/13

Entry: 20:32:48

Dispatch: 20:32:48

Onscene: 20:32:48

Close:

Call/Case Nbr: [L1182](#)

Current Status: ONSCENE

Primary Unit: [S197](#)

Jurisdiction: TA

Disposition:

Location: 3700 S PINE ST ,TA (S 36TH ST & S 38TH ST)

Loc Comments: [Map-It](#)

DAREA: PS Current:

Beat/Stn: TA31 Map Page:

RD: 407 Page:

Type: PREDPO Final: PREDPO

Priority: 3 PREDICT POLICING

Page: PRIORS ☐ Detail

20:32:48 ONVIEW [S197](#)

20:32:48 PRIOR LP PREDPO 03/25/13 @ 23:07:47 (1 MORE)

20:32:48 ID S197 (T04654) JEPSON, KEVIN

OPERATOR ASSIGNMENTS: TE70 T04654 JEPSON, KEVIN

Now use "Control + [Predpol Letter]"

OK

S197

ON SCENE

TE70

30 April 20:33

No Messages

F1 ENROUTE	View 1	View 2	View 3	View 4	Dispatch	QP PN	QP PS
F2 ARRIVE	<div>INCIDENT HISTORY DETAIL: LAW/L131201182</div> <div><div>Initiate: 20:32:48 04/30/13</div><div>Entry: 20:32:48</div><div>Dispatch: 20:32:48</div><div>Onscene: 20:32:48</div><div>Close:</div></div> <div><div>Call/Case Nbr: <u>L1182</u></div><div>Current Status: <u>ONSCENE</u></div><div>Primary Unit: <u>S197</u></div><div>Jurisdiction: TA</div><div>Disposition:</div></div> <div>Location: 3700 S PINE ST ,TA (S 36TH ST &amp; S 38TH ST)</div> <div>Loc Comments: <u>Map-It</u></div> <div><div>DAREA: PS</div><div>Current:</div><div>Beat/Stn: TA31</div><div>RD: 407</div></div> <div><div>Type: PREDPO</div><div>Priority: 3</div><div>Page: <b>PRIORS</b></div></div> <div><div>Final: PREDPO</div><div>PREDICT POLICING</div><div><input type="checkbox"/> Detail</div></div>						

20:32:48 ONVIEW

20:32:48 PRIOR

20:32:48 ID

20:34:32 MISC

S197

LP PREDPO 03/25/13 @ 23:07:47 (1 MORE)

S197 (T04654) JEPSON, KEVIN

S197, POLICE ZONE A

OPERATOR ASSIGNMENTS: TE70 T04654 JEPSON, KEVIN

OK

S197

ON SCENE

TE70

30 April 20:38

No Messages

The ZONE will automatically be entered

F1 ENROUTE	View 1	View 2	View 3	View 4	Dispatch	QP PN	QP PS
F2 ARRIVE	<div>INCIDENT HISTORY DETAIL: LAW/L131201182</div> <div>Initiate: 20:32:48 04/30/13      Call/Case Nbr: <u>L1182</u></div> <div>Entry: 20:32:48                      Current Status: ONSCENE</div> <div>Dispatch: 20:32:48                   Primary Unit: <u>S197</u></div> <div>Onscene: 20:32:48                    Jurisdiction: TA</div> <div>Close:                                   Disposition:</div> <div>Location: 3700 S PINE ST ,TA (S 36TH ST &amp; S 38TH ST)</div> <div>Loc Comments: <u>Map-It</u></div> <div>DAREA: PS      Current:                      Type: PREDPO      Final: PREDPO</div> <div>Beat/Stn: TA31 Map Page:                   Priority: 3      PREDICT POLICING</div> <div>RD: 407                      Page:                      PRIORS                      <input type="checkbox"/> Detail</div> <div>20:32:48    ONVIEW                      <u>S197</u></div> <div>20:32:48    PRIOR                      LP PREDPO 03/25/13 @ 23:07:47      MORE)</div> <div>20:32:48    ID                      S197 (T04654) JEPSON, KEVIN</div> <div>20:34:32    MISC                      <u>S197</u>, POLICE ZONE A</div> <div>OPERATOR ASSIGNMENTS: TE70    T04654 JEPSON, KEVIN</div>						
F3 BLANK							
F4 ORIG DISP							
F5 TRF STOP							
F6 SUSP PERS							
F7 RCL INC							
F8 PAGE FWD							
F9 NEXT MSG							
F10 SAVE							
F11 RECALL							
F12 REPLY	No Messages						

If no activity, disposition = "C" (work sheet),  
actual code = "PREDPO"

If activity, officer calls out appropriate call type  
and enters correct disposition (e.g. "SUSV")